

(19) World Intellectual Property  
Organization  
International Bureau

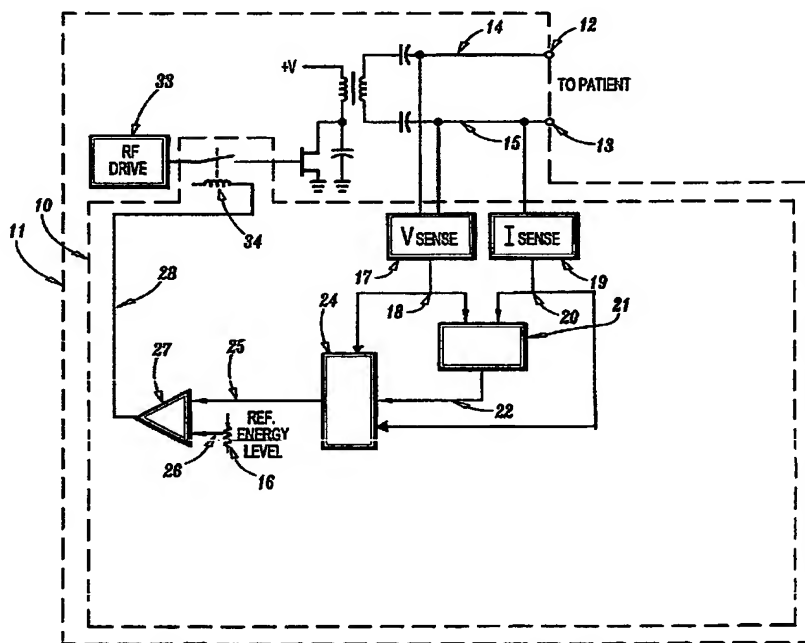


(43) International Publication Date  
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number  
**WO 2005/046496 A1**

- (51) International Patent Classification<sup>7</sup>: **A61B 18/12**
- (21) International Application Number:  
PCT/US2003/037310
- (22) International Filing Date:  
21 November 2003 (21.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/515,816 30 October 2003 (30.10.2003) US
- (71) Applicant (for all designated States except US): **SHERWOOD SERVICES AG** [CH/CH]; Bahnhofstr.29, CH-8200 Schaffhausen (CH).
- (72) Inventors; and  
(75) Inventors/Applicants (for US only): **WHAM, Robert Hartzell** [US/US]; 705 Yale Road, Boulder, CO 80305 (US). **STURM, Thomas, A.** [US/US]; 795 Pope Drive, Erie, CO 80516 (US).
- (54) Title: AUTOMATIC CONTROL SYSTEM FOR AN ELECTROSURGICAL GENERATOR
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: An automatic control system for an electrosurgical generator is herein disclosed. The automatic control system includes voltage and current sensing circuits, a processing circuit, an output determining circuit, and a control circuit. Samples of the voltage and current outputs are supplied to the processing circuit and the output determining circuit to generate an output signal. The output signal is compared to a reference signal to generate a feedback signal for controlling a drive circuit.